CLAIMS

- 1. An isolated polynucleotide comprising a sequence selected from the group consisting of:
- (a) sequences provided in SEQ ID NO:1-232, 243-396, 398-412, 414-424 and 437-440;
- (b) complements of the sequences provided in SEQ ID NO:1-232, 243-396, 398-412, 414-424 and 437-440;
- (c) sequences consisting of at least 20 contiguous residues of a sequence provided in SEQ ID NO:1-232, 243-396, 398-412, 414-424 and 437-440;
- (d) sequences that hybridize to a sequence provided in SEQ ID NO:1-232, 243-396, 398-412, 414-424 and 437-440, under moderately stringent conditions;
- (e) sequences having at least 75% identity to a sequence of SEQ ID NO:1-232, 243-396, 398-412, 414-424 and 437-440;
- (f) sequences having at least 90% identity to a sequence of SEQ ID NO:1-232, 243-396, 398-412, 414-424 and 437-440; and
- (g) degenerate variants of a sequence provided in SEQ ID NO:1-232, 243-396, 398-412, 414-424 and 437-440.
- 2. An isolated polypeptide comprising an amino acid sequence selected from the group consisting of:
 - (a) SEQ ID NO:229-232, 237-242, 397, 413 and 425-436;
 - (b) sequences encoded by a polynucleotide of claim 1; and
- (c) sequences having at least 70% identity to a sequence encoded by a polynucleotide of claim 1; and
- (d) sequences having at least 90% identity to a sequence encoded by a polynucleotide of claim 1.

- 3. An expression vector comprising a polynucleotide of claim 1 operably linked to an expression control sequence.
- 4. A host cell transformed or transfected with an expression vector according to claim 3.
- 5. An isolated antibody, or antigen-binding fragment thereof, that specifically binds to a polypeptide of claim 2.
- 6. A method for detecting the presence of a cancer in a patient, comprising the steps of:
 - (a) obtaining a biological sample from the patient;
- (b) contacting the biological sample with a binding agent that binds to a polypeptide of claim 2;
- (c) detecting in the sample an amount of polypeptide that binds to the binding agent; and
- (d) comparing the amount of polypeptide to a predetermined cut-off value and therefrom determining the presence of a cancer in the patient.
- 7. A fusion protein comprising at least one polypeptide according to claim 2.
- 8. An oligonucleotide that hybridizes to a sequence recited in SEQ ID NO:1-232, 243-396, 398-412, 414-424 and 437-440 under moderately stringent conditions.
- 9. A method for stimulating and/or expanding T cells specific for a tumor protein, comprising contacting T cells with at least one component selected from the group consisting of:
 - (a) polypeptides according to claim 2;

- (b) polynucleotides according to claim 1; and
- (c) antigen-presenting cells that express a polypeptide according to claim 1,

under conditions and for a time sufficient to permit the stimulation and/or expansion of T cells.

- 10. An isolated T cell population, comprising T cells prepared according to the method of claim 9.
- 11.. A composition comprising a first component selected from the group consisting of physiologically acceptable carriers and immunostimulants, and a second component selected from the group consisting of:
 - (a) polypeptides according to claim 2;
 - (b) polynucleotides according to claim 1;
 - (c) antibodies according to claim 5;
 - (d) fusion proteins according to claim 7;
 - (e) T cell populations according to claim 10; and
- (f) antigen presenting cells that express a polypeptide according to claim 2.
- 12. A method for stimulating an immune response in a patient, comprising administering to the patient a composition of claim 11.
- 13. A method for determining the presence of a cancer in a patient, comprising the steps of:
 - (a) obtaining a biological sample from the patient;
- (b) contacting the biological sample with an oligonucleotide according to claim 8;

- (c) detecting in the sample an amount of a polynucleotide that hybridizes to the oligonucleotide; and
- (d) compare the amount of polynucleotide that hybridizes to the oligonucleotide to a predetermined cut-off value, and therefrom determining the presence of the cancer in the patient.
- 14. A diagnostic kit comprising at least one oligonucleotide according to claim 8.
- 15. A diagnostic kit comprising at least one antibody according to claim 5 and a detection reagent, wherein the detection reagent comprises a reporter group.